

[illegible]

4. One or more computer-readable media as recited in claim 3, wherein the intended target comprises another node in the co-location facility.

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- 1           5.     One or more computer-readable media as recited in claim 3, wherein  
2     the intended target comprises at least one of the components executing on the  
3     node.  
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- 5           6.     One or more computer-readable media as recited in claim 1, wherein  
6     the beginning and terminating execution of components comprises beginning and  
7     termination execution of the components based on commands received from an  
8     operations console at a location remote from the co-location facility.  
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- 10          7.     One or more computer-readable media as recited in claim 1, wherein  
11     one of the components comprises an operating system.  
12
- 13          8.     A system comprising:  
14             a plurality of node clusters, each node cluster including a plurality of nodes;  
15     and  
16             wherein each individual node includes a controller to enforce restrictions on  
17     which other nodes the individual node can receive data from and which other  
18     nodes the individual node can send data to.  
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- 20          9.     A system as recited in claim 8, wherein each individual node further  
21     includes a plurality of filters that identify the restrictions.  
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1           **10.**   A system as recited in claim 8, wherein the restrictions prevent the  
2 individual node from sending data to or receiving data from another node that is  
3 not in the same node cluster as the individual node.

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5           **11.**   A system as recited in claim 8, wherein each individual node  
6 includes a network interface adapter that includes the controller.

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8           **12.**   A system as recited in claim 8, wherein for each of the plurality of  
9 nodes:

10           a plurality of management devices share management responsibility for the  
11 node; and

12           one of the plurality of management devices is given an extended set of  
13 management rights over the node, and the remaining management devices is given  
14 a more restricted set of management rights over the node.

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16           **13.**   A system as recited in claim 8, wherein the controller in each node  
17 is further to terminate and initiate execution of applications on the node in  
18 response to requests from an external management device.

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20           **14.**   A system as recited in claim 8, wherein the plurality of node clusters  
21 are included in a co-location facility.

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23           **15.**   A method comprising:

24           receiving, at a node in a co-location facility, a first request from a first  
25 control console that is local to the co-location facility;

1 implementing the first request;  
 2 receiving, at the node, a second request from a second control console that  
 3 is remote from the co-location facility; and  
 4 implementing the second request.

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 6 **16.** A method as recited in claim 15, wherein the first request comprises  
 7 hardware operation oriented commands.

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 9 **17.** A method as recited in claim 15, wherein the second request  
 10 comprises software application control oriented commands.

11  
 12 **18.** A method as recited in claim 15, wherein the first request  
 13 corresponds to one of a first set of rights that are granted to the first control  
 14 console, wherein the second request corresponds to one of a second set of rights  
 15 that are granted to the second control console, and wherein the first set of rights is  
 16 more restricted than the second set of rights.

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 18 **19.** One or more computer-readable memories containing a computer  
 19 program that is executable by a processor to perform the method recited in claim  
 20 15.

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1           **20.** One or more computer-readable media having stored thereon a  
2 computer program that, when executed by one or more processors of a node in a  
3 facility, causes the one or more processors to perform acts including:

4           establishing a boundary of a server cluster in the facility, wherein the server  
5 cluster includes the node; and

6           altering the boundary of the server cluster based on commands received  
7 from a console outside the server cluster.

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9           **21.** One or more computer-readable media as recited in claim 20,  
10 wherein the establishing comprises including a filter that restricts access to another  
11 node that is in the facility but that is not in the server cluster.

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13           **22.** One or more computer-readable media as recited in claim 20,  
14 wherein the establishing comprises generating a plurality of filters identifying only  
15 other nodes in the server cluster as being permissible to access.

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17           **23.** One or more computer-readable media as recited in claim 20,  
18 wherein the computer program, when executed, further causes the one or more  
19 processors to perform acts including executing a software engine in response to a  
20 command received from the console.

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1           24. One or more computer-readable media as recited in claim 20,  
2 wherein the computer program, when executed, further causes the one or more  
3 processors to perform acts including terminating execution of a software engine in  
4 response to a command received from the console.

5  
6           25. One or more computer-readable media as recited in claim 20,  
7 wherein the facility comprises a co-location facility.

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9           26. A system comprising:  
10 an interface allowing management devices corresponding to a plurality of  
11 management agents responsible for managing the system to access the system; and  
12 a controller to operate as a trusted third party mediating interaction among  
13 the plurality of management agents by assigning each of the plurality of  
14 management agents to a different one of a plurality of ownership domains and  
15 restricting the rights of each ownership domain in the system.

16  
17           27. A system as recited in claim 26, wherein the controller is further to  
18 terminate execution of a software engine in the system in response to a request  
19 from a management device corresponding to one of the plurality of management  
20 agents.

21  
22           28. A system as recited in claim 26, wherein the controller is further to  
23 initiate execution of a software engine in the system in response to a request from  
24 a management device corresponding to one of the plurality of management agents.  
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**29.** A system as recited in claim 26, wherein one of the plurality of ownership domains is a top-level ownership domain having a first set of rights, and wherein each of the other ownership domains in the plurality of ownership domains has a second set of rights.

**30.** A system as recited in claim 29, wherein the second set of rights is more restrictive than the first set of rights.

31. A system as recited in claim 29, wherein the first set of rights includes: the right to create new ownership domains, the right to access system memory, the right to access a mass storage device of the system, the right to modify filters in the system, the right to start execution of software engines in the system, the right to stop execution of software engines in the system, the right to debug software engines in the system, the right to change authentication credentials for the ownership domain, the right to modify a storage key for the ownership domain, and the right to subscribe to events engine events, machine events, and packet filter events at the system.

32. A system as recited in claim 29, wherein the second set of rights includes: the right to revoke an existing ownership domain, the right to modify filters in the system, the right to change authentication credentials for the ownership domain, and the right to subscribe to machine events and packet filter events at the system.







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1 restricting which requests from management devices corresponding to the  
2 plurality of management agents are carried out based at least in part on the rights  
3 of the management agent.

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5 **41.** A method as recited in claim 40, where each of the plurality of  
6 management agents corresponds to one or more management devices that are  
7 coupled to the computer.

8  
9 **42.** A method as recited in claim 40, wherein the extended set of rights  
10 includes: the right to create new ownership domains, the right to access system  
11 memory, the right to access a mass storage device of the system, the right to  
12 modify filters in the system, the right to start execution of software engines in the  
13 system, the right to stop execution of software engines in the system, the right to  
14 debug software engines in the system, the right to change authentication  
15 credentials for the ownership domain, the right to modify a storage key for the  
16 ownership domain, and the right to subscribe to events engine events, machine  
17 events, and packet filter events at the system.

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19 **43.** A method as recited in claim 40, wherein the more limited set of  
20 rights includes: the right to revoke an existing ownership domain, the right to  
21 modify filters in the system, the right to change authentication credentials for the  
22 ownership domain, and the right to subscribe to machine events and packet filter  
23 events at the system.

44. A method as recited in claim 40, wherein the extended set of rights includes: the right to create new ownership domains, the right to access system memory, the right to access a mass storage device of the system, and the right to modify filters in the system.

45. A method as recited in claim 40, wherein the more limited set of rights includes: the right to revoke an existing ownership domain and the right to modify filters in the system, including the right to add a filter that cannot be subverted by a management agent assigned to the top-level ownership domain.

46. A method as recited in claim 40, wherein the one management agent corresponds to a top-level ownership domain, and wherein any of the other management agents can revoke the rights of the one management agent.

47. A method as recited in claim 40, further comprising:

assigning, by the one management agent having the extended set of rights, the extended set of rights to a new management agent;

assigning the one management agent to having the more limited set of rights.

48. A method as recited in claim 40, further comprising:

allowing which of the plurality of management agents has the extended set of rights to change over time; and

erasing a system memory each time a change occurs in which of the plurality of management agents has the extended set of rights.

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**49.** A method as recited in claim 40, further comprising terminating execution of a software engine in the computer in response to a request from a management device corresponding the one management agent having the extended set of rights.

**50.** A method as recited in claim 40, further comprising initiating execution of a software engine in the computer in response to a request from a management device corresponding the one management agent having the extended set of rights.

**51.** A method as recited in claim 40, wherein the computer comprises a node in a co-location facility.

**52.** One or more computer-readable memories containing a computer program that is executable by a processor to perform the method recited in claim 40.